IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

NONPROVISIONAL PATENT APPLICATION

Title: LIFESAVING SYSTEM FOR BUILDINGS

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CROSS-REFERENCE TO RELATED APPLICATIONS

This application claims the priority date of Spanish

Patent P200302042 filed on August 13, 2003. The basis for

priority in this case is the Paris Convention for the

Protection of Industrial Property (613 O.G. 23,53 Stat 1748).

The Spanish patent application was filed in The Official

Patent and Trademarks Office of Spain.

TECHNICAL FIELD OF THE INVENTION

The present invention relates to the rescue of people

from buildings due to fire, smoke, and other dangerous

conditions.

BACKGROUND OF THE INVENTION

There are at present no devices for saving people

trapped in buildings, particularly in tall buildings where

external resources cannot be used.

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## SUMMARY OF THE INVENTION

The lifesaving system for buildings in the present invention consists of a tubular device which can be opened lengthwise and laterally, with opened crowns or circular radial curved crowns attached to the inside wall, having on the inside of the crowns flexible vanes or fins through which inverted bell-form elements pass, the elements somewhat larger in size than the inner size of the crowns, the elements braked or slowed as they move downwards, with the persons, animals or objects descending inside them.

The tubular device may be rigid or foldable, made of fabric or of three or more cords carrying rings which in turn hold the vanes or fins crowns.

The tubular device and crown may be of circular or elliptical cross-section, and on one variant of the crown, the vanes or fins form two ellipses for the fitting of shoes, with an inner hole of somewhat smaller size.

A variant uses an annular element, whose outside perimeter is a tapered cone and curved, and which adapts to the top of the chest, and under the armpits, and a similar element may be adapted around the legs, with an additional central diameter support.

The bell-shaped elements may also have a lug or flange which is flexible or of vane or fin form.

For lesser heights, the ducting can be used on a slope with just the vanes or fins for support of the back or rear.

Reinforced trousers may also be used.

At the bottom, the vanes or fins may be closer together or stronger, to further reduce the speed of drop. A foam rubber element may be added at the end.

Reinforced gloves can be used to control descent, which can also be regulated with pressure on the flexible bell lugs.

If the tube has no side opening, gates can be added.

The present invention has the following advantages: Very useful, economical, simple, the equipment can be recovered and is long lasting, it saves lives and in some cases can be used to reduce phobias caused by tall buildings.

## BRIEF DESCRIPTION OF THE DRAWINGS

Figure 1 shows a schematic, perspective and partial view of the device in the invention.

Figure 2 shows a schematic, perspective and partial view of a variant of the device.

Figure 3 shows a schematic, side and partial view of the device.

Figure 4 shows a schematic side view of a bell-shape element.

Figure 5 to 7 show a schematic plant views of different crowns.

## DETAILED DESCRIPTION OF THE DRAWINGS

Figure 1 consists of the tubular device (1) which can be opened lengthwise and laterally, the foam rubber element (2), with opened crowns or circular, radial curved crowns and opened (3 and 3') attached to the inside wall, having on the inside of said crowns and radial there are flexible vanes or fins (8 and 8) through which inverted bell-form elements (6, figure 4) pass which, said elements somewhat larger in size than the inner smaller size of the crowns, are braked or slowed as they move downwards, like the persons, animals or objects descending inside them.

Figure 2 of the crown (33), the cords or flexible tubular wall made of fabric that can be folded (4), the upper support element (5), the bell-form element (6) and its ring (34).

Figure 3 consists of the annular element (7), whose outside perimeter is a tapered cone and curved, and which adapts to the top of the chest, and under the armpits, and the vanes or fins (8 and 8').

Figure 4 consists of the bell-shaped element (6) and the vanes, lug or flange (37) and the holes (36) to introduce the legs.

Figure 5 consists of the circular crown (33).

Figure 6 consists of the elliptical crown (35), where the vanes or fins form two ellipses for the fitting of shoes, their inner hole (9) of somewhat smaller size than them. This can be used by the more experienced people.

Figure 7 consists of the open elliptical crown (3).